

## **REMARKS**

Claims 7-45 are pending in the above identified application. Applicants have amended claims 7, 38, and 45. No new matter has been added.<sup>1</sup>

### **Drawings**

The Examiner has objected to the drawings under 37 C.F.R. §1.83(a). In particular, the Examiner states that “the plurality of receivers, down converter, . . . equalizer and decoder as claimed in claim 1, must be shown or the feature(s) canceled from the claim(s).” However, these features are illustrated in the figures.

As is more fully explained in the specification of the present application, the plurality of receivers (or demodulators as they are often referred) is illustrated in Figure 2C as demodulators 222-1 through 222-K. An arbitrary one of the receivers that includes the components of the receiver, demodulator 222-k, is illustrated in Figure 5.

Consequently, the figures have not been amended in this application. Applicants request that the Examiner rescind this objection.

### **Claim Rejections Under 35 U.S.C. § 103**

#### **Claims 7, 38, and 45**

The Examiner rejected claims 7, 38, and 45 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,259,745 B1 (“Chan”) in view of U.S. Patent No. 5,822,368 (“Wang”). In

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<sup>1</sup> It should be noted that the Examiner has made many comments regarding the claims and the teachings of the prior art. Applicants do not automatically agree with or acquiesce in any of the Examiner’s comments regarding interpretation of the teachings of the prior art or the claimed invention by not specifically addressing any of those comments herein.

particular, the Examiner indicates that “Chan discloses in Fig. 1, a transmission system, comprising: a plurality of receivers, each of the plurality of receivers receiving signals from one of a plurality of transmission bands (col. 28, lines 30-34).” (Office Action, page 3).

However, Chan does not disclose “a plurality of receivers, each of the plurality of receivers receiving signals from one of a plurality of transmission bands on a single transmission medium,” as is recited in claim 1, “receiving an input signal into a plurality of receivers coupled to a single transmission medium, each of the plurality of receivers receiving signals from one of a plurality of transmission bands” as is recited in claim 38, or “means for receiving an input signal from a single transmission medium, the input signal including a plurality of transmission bands,” as is recited in claim 45. Instead, Chan teaches transmission of a single channel of data over each of a plurality of transmission media. (*See* Figure 1).

As taught in Chan, with reference to Figure 1,

[e]ach transmitter circuit is coupled to a respective wire pair transmission media. Although FIG. 1 illustrates a single driver circuit corresponding to a respective twisted wire pair, the illustration is simplified for ease of explanation of the principles of the invention. It should be understood that the transmitter within each transceiver 6 represents a multiplicity of differential output cells, the sum of which defines the physical signals directed to the transmission medium.

(Chang, col. 6, lines 35-43). As further indicated, the transceiver system includes a digital filter that “is integrated with a DAC binary decoder in a memory device such as a read-only memory (ROM) with time multiplexed output.” (Chang, col. 1, line 67, -col. 2, line 2). As further explanation, Change teaches that

[f]or ease of illustration and description, the embodiment of FIG. 2 depicts only one of the four 250 Mb/s constituent transceivers which are configured in parallel fashion and which operate simultaneously to effect 1 Gb/s in order to effect 1 Gb/s communication.

(Chang, col. 7, lines 30-34). Therefore, Chang teaches a transceiver system where single channels of data are transmitted over multiple transmission media. As further indicated, multiple data streams can be time multiplexed onto the single channels.

Therefore, Chang does not teach ““a plurality of receivers, each of the plurality of receivers receiving signals from one of a plurality of transmission bands on a single transmission medium,” as is recited in claim 1, “receiving an input signal into a plurality of receivers coupled to a single transmission medium, each of the plurality of receivers receiving signals from one of a plurality of transmission bands” as is recited in claim 38, or “means for receiving an input signal from a single transmission medium, the input signal including a plurality of transmission bands,” as is recited in claim 45. Wang, which teaches a “[a] digital audio broadcasting (DAB) system [that] includes a radio-frequency (RF) receiver that develops a characterization signal representative of a respective mobile communications channel,” (Wang, abstract), does not cure the defects in the teachings of Chang.

Therefore, claims 7, 38, and 45 are allowable over the combination of Chang and Wang.

#### Claims 8, 9, 15, and 39

The Examiner rejected claims 8, 9, 15, and 39 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,259,745 B1 (“Chan”) in view of U.S. Patent No. 5,822,368 (“Wang”) as applied to claims 7 and 38, and further in view of U.S. Patent No. 6,163,563 (“Baker et al.”).

As discussed above, claims 7 and 38 are allowable over the combination of Chang and Wang. Baker does not cure the defects in the teachings of Wang and Chang.

Claims 8, 9, and 15 depend from claim 7 and are therefore allowable over the combination of Wang, Chang, and Baker for at least the same reasons as is claim 7. Claim 39 depends from claim 38 and is allowable over the combination of Wang, Chang, and Baker for at least the same reasons as is claim 38.

#### Allowable Subject Matter

The Examiner has objected to claims 10-14, 16-37, and 40-44 as being dependent upon the rejected base claims, but indicated that they would be allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims. As indicated above, claims 7-9, 15, 38-39, and 45 are allowable. Therefore, at this time, Applicants have not amended claims 10-14, 16-37, and 40-44 to be independent form. Applicants request that the Examiner rescind the objection to these claims in light of the allowability of the base claims.

Conclusion

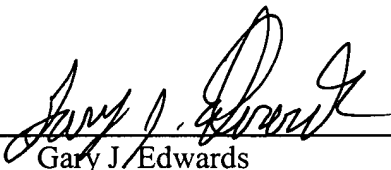
Claims 7-45 are pending in the above identified application. As discussed above, claims 7-45 are allowable. Therefore, Applicants request that the Examiner provide a Notice of Allowability for claims 7-45. If the Examiner has any questions regarding this amendment, the Examiner is invited to call the undersigned at 650-849-6622.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

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